

MAY 17 2002

K 021487

**Sterling Medivations, Inc.**

66 Neptune Drive  
Groton, CT 06340  
650-814-4083 (voice)  
770-242-8639 (fax)

**510(k) SUMMARY**

**Date Submitted:** May 7, 2002

**Submitter:** Sterling Medivations, Inc. 66 Neptune Drive, Groton, CT 94022  
Company Phone 650-814-4083, Company Fax 770-242-8639

**Contact:** Joel Douglas, Chief Technology Officer  
Sterling Medivations, Inc.  
Applicant Phone 650-814-4083 or 770-242-8639

**Trade Name of Device:** Simplicity™ Easy Access P Infusion Set for infusion and/or injection of fluids into the body below the surface of the skin when attached to an external pump or syringe.

**Common Name of Device:** Intravascular administration set.  
**Classification Name:** Percutaneous intravascular catheter.

**Predicate Device:** Simplicity Easy Access Infusion Set, FDA 510 (k) K014062.

**Description of the New Device:** Sterling Medivations Inc.'s ("SMI") Simplicity Easy Access P designed for use by people with diabetes for the infusion and/or injection of fluids into the body below the surface of the skin when attached to a MiniMed Paradigm pump or syringe. It is inserted into the tissue of a patient and the catheter is attached to the infusion device. It is substantially equivalent to the Simplicity™ Easy Access Infusion Set, K014062 and Soft YP Infusion Set, FDA 510 (k) K011187.

The Simplicity Easy Access P Infusion Set proposed for commercial distribution is similar in all significant respects to the existing Simplicity Easy Access Infusion Set, FDA 510 (k) K014062 and it has the same intended use.

The device consists of four main parts: (1) infusion catheters made from AISI 304 stainless steel, (2) an infusion hub that provides the patient the capability of disconnecting the connecting tube from the infusion catheter, (3) a connecting tube and (4) a threaded YP connector.

The Simplicity Easy Access P Infusion Set is an infusion administration set, connecting to a medicine reservoir or syringe that is placed in an external infusion device and inserted below the surface of the skin of a patient. The SMI Simplicity Easy Access Infusion Set may be used with any Paradigm infusion device that delivers continuous or intermittent flow.

The administration set attaches to the reservoir/syringe by means of a threaded YP connector, and under the surface of the skin in the patient through an indwelling needles formed from AISI 304 stainless steel. The connecting tubing is made from a polyethylene tube.

The indwelling needles formed from AISI 304 stainless steel are introduced below the surface of the skin. The connector needle is attached to the hub fixed to the indwelling catheter. This seal on the connector needle mates with the indwelling catheter hub that forms a seal that permits the infusion of medication without leakage. The connector needle is made from AISI 304 stainless steel and it is connected to the connecting tubing. The connector tubing proximal end is attached to a threaded YP connector for attachment to the Paradigm medicine reservoir.

**Intended Use of the New Device:** The intended use of the Simplicity Easy Access P Infusion Set is to provide a means to for infusion and/or injection of fluids into the body below the surface of the skin when attached to a MiniMed Paradigm pump or syringe.

### **Comparison of the Technological Features of the New Device and Predicate Device:**

The Simplicity Easy Access Infusion Set proposed for commercial distribution is similar in all significant respects to the existing Simplicity Easy Access Infusion Set, FDA 510 (k) K014062 and it has the same intended use.

The materials and manufacturing processes are substantially equivalent, the labeling is substantially equivalent and it has the same intended use as the Simplicity Easy Access Infusion Set.

### **The differences that exist between the new and predicate device are as follows:**

- 1) The Simplicity Easy Access P Infusion Set has a 360 degree rotating infusion hub attached to the connecting tube and the predicate device has a fixed infusion hub attached to the connecting tube. The 360 degree rotating hub and connector is equivalent to the hub and connector on the Sterling Medivations Soft QD II Infusion Set, K020990.
- 2) The Simplicity Easy Access P Infusion Set has is sold in two package configurations a complete 10 pack and a 5/10 package consisting of 10 indwell housing hubs and 5 connecting tubes for patient that change their indwell housing hubs more frequently than every 72 hours. This is similar to the packaging provided by the Maersk Medical Contour™ Infusion Set, K991759 sold as the MiniMed Silhouette.
- 3) The Simplicity Easy Access P Infusion Set indwelling catheter connector is designed for use with the MiniMed Paradigm pump which is equivalent to the YP connector on the Sterling Medivations Simplicity Soft YP Infusion Set K011187.

**Performance Data Supporting Substantial Equivalence:** To prove substantial equivalence the Simplicity Easy Access Infusion Set meets the catheter requirements of:

- CDRH 21 C.F.R. Section 880.5440 Intravascular administration set
- ISO 10555 Sterile, single use intravascular catheters (Part 1: General Requirements)
- ISO 10555 Sterile, single use intravascular catheters (Part 5: Peripheral Catheters).
- ISO 11135:1994 Medical devices -- Validation and routine control of ethylene oxide sterilization
- ISO 11138-2:1994 Sterilization of health care products -- Biological indicators -- Part 2: Biological indicators for ethylene oxide sterilization.
- ISO 9626: 1991 Stainless Steel needle tubing for the manufacture of medical devices.
- ISO 11607: 1997 Packaging for terminally sterilized medical devices.
- ISO 8535: 1991 Sterile single use syringes, with or without needle, for insulin.
- FDA Guidelines on validation of the Limulus Amebocyte Lysate (LAL) Test as an end product endotoxin test for human and animal parenteral drugs, biological products, and medical devices.
- ODE Blue Book Memorandum #K90-1.
- ISO 10993-1, Biological evaluation of medical devices - Part 1: Evaluation and testing.

And the design process adhered to is the Center for Devices and Radiological Health. DESIGN CONTROL GUIDANCE FOR MEDICAL DEVICE MANUFACTURERS. This Guidance relates to FDA 21 CFR 820.30 and Sub-clause 4.4 of ISO 9001. This is substantially equivalent to the predicate device.

Signed,



Joel S. Douglas  
Chief Technology Officer



Food and Drug Administration  
9200 Corporate Boulevard  
Rockville MD 20850

MAY 17 2002

Mr. Joel Douglas  
Chief Technology Officer  
Sterling Medivations, Incorporated  
66 Neptune Drive  
Groton, Connecticut 06340

Re: K021487

Trade/Device Name: Simplicity Easy Access P Infusion Set  
Regulation Number: 880.5440  
Regulation Name: Intravascular Administration Set  
Regulatory Class: II  
Product Code: FPA  
Dated: May 7, 2002  
Received: May 8, 2002

Dear Mr. Douglas:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the Federal Register.

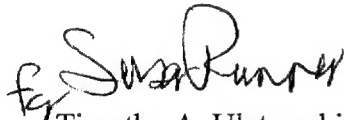
Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies.

You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801 and additionally 21 CFR Part 809.10 for in vitro diagnostic devices), please contact the Office of Compliance at (301) 594-4618. Additionally, for questions on the promotion and advertising of your device, please contact the Office of Compliance at (301) 594-4639. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). Other general information on your responsibilities under the Act may be obtained from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 443-6597 or at its Internet address <http://www.fda.gov/cdrh/dsma/dsmamain.html>

Sincerely yours,

A handwritten signature in black ink, appearing to read "Timothy A. Ulatowski", with a stylized "T" and "U".

Timothy A. Ulatowski  
Director

Division of Dental, Infection Control  
and General Hospital Devices  
Office of Device Evaluation  
Center for Devices and  
Radiological Health

Enclosure

K021487

510(k) Number (if known):

Device Name: Simplicity Easy Access P Infusion Set

Indications For Use:

The intended use of the Simplicity Easy Access P Infusion Set is to provide a means ~~is~~ for infusion and/or injection of fluids into the body below the surface of the skin when attached to a MiniMed Paradigm pump or syringe.

(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE IF  
NEEDED)

Concurrence of CDRH, Office of Device Evaluation (ODE)

Prescription Use ✓ OR  
(PER 21 CFR 801.109)

Over-The-Counter Use \_\_\_\_\_

(Optional Format 1-2-96)

*Rafaela Curcio*  
(Division Sign-Off)  
Division of Dental, Infection Control,  
and General Hospital Devices  
510(k) Number K021487